

Abstract

Process and apparatus for the combinatorial preparation of mixtures, and use of these

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The present invention relates to a continuous process for the preparation of mixtures from a wide variety of components, and also to an apparatus for carrying out the process. The process encompasses the steps of:

- 10 a) charging the individual components to storage vessels,
- b) introducing each individual component by way of a conveying device for this component into a mixing device,
- c) varying the conveying rate of at least one conveying device in such a way that this conveying rate varies periodically between a lower and an upper limiting value, and
- 15 d) mixing the individual components in the mixing device.

An example of an application of the invention is the preparation of substance libraries for high-throughput screening in the plastics industry, in particular of mixtures of polymers with one another, and of mixtures of
20 polymers with additives.